

## LAYA RAJ

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### PROFESSIONAL PROFILE

Both a team player and individual contributor with strong academic research with learning management, communication and project management skills. Strong technical and innovation background with analytical thinking ability and expertise in communicating at different levels.

### EXPERIENCE

**Technical University of Darmstadt, Germany** Jan 2021- Dec 2021  
Research Assistant

Involves research and coordination as scientific assistant working on the project “*Developing a Sustainable Arsenic Filter for the rural poor in Bangladesh*” in collaboration with University of Heidelberg, Germany.

- Hands on experience with data analysis and modelling tools
- Statistical analysis, modelling and visualization using Python, R and SPSS, Tableau and GIS
- Present project plans, analysis to external stakeholders and manage expectations
- Support Professors in managing their research projects, funding with stakeholders

#### Skills Acquired:

- Data Analysis and modeling
- Organizational management, Project planning and management
- Content management in SharePoint

**College of Engineering Trikaripur, Kerala, India** Jul 2012 -Present  
Assistant Professor

- Develop semester plans learning schedule, course contents and organizational plans for undergraduate studies
- Alignment with cross-departmental expectation management
- Supervising and mentoring students to develop and execute undergraduate projects/thesis in line with interest and industry trends
- Taught and facilitated lectures for undergraduates in various Engineering subjects with university exam questionnaire setting assessment and grading
- Conduct expert talks for faculty development programs and students
- Responsible for departmental hiring of Lectures and Support staffs
- Co Ordinator for overall department accreditation activities for National Accreditation Body (NBA), a Government of India organization

**Oxford College of Engineering, Bangalore, India**

Lecturer May 2011 – Jan 2012

- Plan, Design, Lead and Organize Environmental engineering laboratory experiment schedules

- Deliver lecture for undergraduate Engineering students
- Assessment and grading of practice papers and university exams.

## EDUCATION

**Master of Technology in Environmental Engineering with Honors,** Aug2011

*Thesis: "Removal of Nitrate from aqueous solution using Zinc sulphate impregnated activated carbon"*

**Bachelor of Engineering in Civil Engineering** June2008

*Thesis: "Significance of Aggregate Flakiness and Elongation in properties of Bituminous mixes"*

## DIGITAL SKILLS

- |                          |                   |
|--------------------------|-------------------|
| ➤ C, Python, R, Igor Pro | ➤ GIS             |
| ➤ Tableau Desktop 10.1   | ➤ MS Office tools |
| ➤ SPSS                   | ➤ MS SharePoint,  |

## LANGUAGES

English, German: Beginner (A2)

## ACHIEVEMENTS

- Cross-Geographical work experience
- Excellent Communication and Presentation skills gained through work, studies, lectures and external participation in conferences
- Great Planning and Organizational skills and stakeholder management
- Successful completion of International Teaching Assistant program to qualify for Teaching
- Participation in Educational Leadership Program at Indian Institute of Management (IIM, Kozhikode) and National Program on Technology Enhanced Learning by NPTEL
- Presentation of Sustainable Filter Technology for Arsenic removal at Indo-German Conference on Water Availability and quality under varying Environmental urban conditions 2021 at Heidelberg University, Germany
- Paper presentation on Highway Construction on Black Cotton Soil at National Conference "RAASTA" Road Tech held at Bangalore.